L	Hits	Search Text	DB	Time stamp
Number				
1	15	369/\$7.ccls. and ((modulat\$3 near3 amplitude) with (0.4\$1 0.5\$1 0.6\$1))	USPAT	2004/06/23 08:31
2	39	369/\$7.ccls. and ((modulat\$3 near3	USPAT	2004/06/23
•		amplitude) with (4?% 5?% 6?% 7?%))		08:34
-	693	369/\$7.ccls. and substrate and groove and	USPAT	2004/06/17
		pitch and wave\$llength and ((numerical		13:22
		adj aperture) NA)		000440540
-	80	369/\$7.ccls. and substrate and groove and pitch and wave\$1length and ((numerical	USPAT	2004/06/17
		adj aperture) NA) and ((blue indigo		14:15
		violet purple) with (laser light))		
_	61	369/\$7.ccls. and substrate and groove and	USPAT	2004/06/17
	1	pitch and wave\$llength and ((numerical		14:18
		adj aperture) NA) and ((blue indigo		
		violet purple) with (laser light)) and		
		((phase adj chang\$3) phase\$1change)		
-	59	369/\$7.ccls. and substrate and groove and	USPAT	2004/06/17
		pitch and wave\$1length and ((numerical		14:21
		adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and		
	}	((phase adj chang\$3) phase\$1change) and		
		(\phase adj chang\s) phase\tenange, and \$3nm		
_	23	[, · · · · · ·	USPAT	2004/06/17
		(pitch with \$3nm) and wave\$1length and		14:22
		((numerical adj aperture) NA) and ((blue		
	İ	indigo violet purple) with (laser light))		
	1	and ((phase adj chang\$3) phase\$1change)	•	
	24	and \$3nm	USPAT	2004/06/17
-	24	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m"	USPAI	14:26
		"."\$3".mu.m")) and wave\$1length and		11.20
		((numerical adj aperture) NA) and ((blue		
		indigo violet purple) with (laser light))		
		and ((phase adj chang\$3) phase\$1change)		
	1	and \$3nm	i	/
-	24	369/\$7.ccls. and substrate and groove and	USPAT	2004/06/17
		(pitch with (\$3nm "0."\$3".mu.m" "."\$3".mu.m")) and wave\$1length and		14:32
		((numerical adj aperture) NA) and ((blue		
		indigo violet purple) with (laser light))		
		and ((phase adj chang\$3) phase\$1change)		
_	22	369/\$7.ccls. and substrate and groove and	USPAT	2004/06/17
		(pitch with ! (\$3nm "0."\$3".mu.m"		14:34
		"."\$3".mu.m")) and (wave\$11ength with		
		(\$3nm "0."\$3".mu.m" "."\$3".mu.m")) and		
		((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light))	1	
-	1 .	and ((phase adj chang\$3) phase\$1change)		
_	9	369/\$7.ccls, and substrate and groove and	USPAT	2004/06/17
		(pitch near3 (\$3nm "0."\$3".mu.m"		14:39
		"."\$3".mu.m" (1"0."\$3 "."\$3) adj		
	1	".mu.m"))) and (wave \$11 ength near3 (\$3nm		
		"0."\$3".mu.m" "."\$3".mu.m" (("0."\$3		
		"."\$3) adj ".mu.m"))) and ((numerical adj	1	
		aperture) NA) and ((blue indigo violet		
		purple) with (laser light)) and ((phase adj chang\$3) phase\$1change)		
_	9		USPAT	2004/06/17
		(pitch near3 (\$3nm "0."\$3".mu.m"		14:41
		"."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and	1	=
		(wave\$11ength near3 (\$3nm "0."\$3".mu.m"		
		"."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and		
		((numerical adj aperture) NA) and ((blue		
		indigo violet purple) with (laser light))		
		and ((phase adj chang\$3) phase\$1change)	<u></u>	

-	22	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and (wave\$1length with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light))	USPAT	2004/06/17 16:42
_	24	and ((phase adj chang\$3) phase\$1change) 369/\$7.ccls. and (pitch with (0\$4".mu.m"	USPAT	2004/06/17
-	22	\$4".mu.m" (0\$4 adj ".mu.m"))) 369/\$7.ccls. and (pitch near6 (0\$4".mu.m"	USPAT	14:50 2004/06/17
-	6	\$4".mu.m" (0\$4 adj ".mu.m"))) 369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and (wave\$1length with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and	USPAT	14:51 2004/06/17 16:43
_	8	((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1change) and ((light adj transmi\$5) with mm) (369/\$7.ccls. and substrate and groove	USPAT	2004/06/17
		and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light))		15:16
		and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) near3 layer) with \$3mm)) (369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and (wave\$1length with (\$3nm "0."\$3".mu.m" ("0."\$3 adj		
		".mu.m"))) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1change) and ((light adj transmi\$5) with mm))		0004/05/117
	8	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$11ength with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) near3 layer) with \$3mm)	USPAT	2004/06/17 16:43
	8	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) near3 layer) with (\$5mm \$3".mu.m" micro\$1meter\$1))	USPAT	2004/06/17 16:26
-	6	("5581539" "6023451" "6246656" "6269070" "6411593" "6487163").PN.	USPAT	2004/06/17 15:41
-	19 423	kondo-tetsuya.in. kondo-tetsuya.in.	US-PGPUB USPAT;	2004/06/17 16:33 2004/06/17
-	29	kondo-tetsuya.in. and (phase adj chang\$3)	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO	16:33 2004/06/17 16:33

	12	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$11ength with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$5".mu.m"))	USPAT	2004/06/17
_	13	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$11ength with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3 transparent) near4 layer) with (\$3mm \$5".mu.m"))	USPAT	2004/06/17 17:12
-	13	369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$5".mu.m"))	USPAT	2004/06/17 17:16
	14	(369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) protect\$3 transparent) near4 layer) with (\$3mm	USPAT	2004/06/17 17:16
		\$5".mu.m"))) (369/\$7.ccls. and substrate and groove and (pitch with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length with (\$3nm \$5".mu.m" ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$5".mu.m")))		
-	1311	369/\$7.ccls. and substrate and groove and pitch and wave\$1length ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) protect\$3) near4 layer)	USPAT	2004/06/17 18:25
-	1235	adj transmi\$5) protect\$3) hear4 layer) 369/\$7.ccls. and substrate and groove and pitch and wave\$1length ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) protect\$3) near4 layer) and (super\$1resolution (super adj resolution) SIL)	USPAT	2004/06/17 17:25
-	0	369/\$7.ccls. and ".mu.m"	USPAT	2004/06/17 17:26

-	4808	369/\$7.ccls. and \$1mu\$1m	USPAT	2004/06/17 17:27
_	18	369/\$7.ccls. and substrate and groove and (pitch near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$6mu\$1m))	USPAT	2004/06/17 18:10
_	22	369/\$7.ccls. and substrate and groove and (pitch near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$6mu\$1m))	USPAT	2004/06/17 18:15
_	0	(369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and (wave\$1length with (\$3nm "0."\$3".mu.m" "."\$3".mu.m" ("0."\$3 adj ".mu.m"))) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1change)) not (369/\$7.ccls. and substrate and groove and (pitch with (\$3nm "0."\$3".mu.m" "."\$3".mu.m")) and wave\$1length and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1change))	USPAT	2004/06/17 18:15
	4	(369/\$7.ccls. and substrate and groove and (pitch near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and (((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$6mu\$1m))) not (369/\$7.ccls. and substrate and groove and (pitch near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1)) and (wave\$1length near4 (\$3nm \$6mu\$1m ((nano micro) adj meter) micro\$1meter\$1 nano\$1meter\$1 nano\$1meter\$1 nano\$1meter\$1 nano\$1meter\$1) and	USPAT	2004/06/17 18:15
_	909	((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3) near4 layer) with (\$3mm \$6mu\$1m))) 369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and pitch and wave\$1length ((numerical adj aperture) NA) and ((blue indigo violet purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj transmi\$5) protect\$3) near4 layer)	USPAT	2004/06/17 18:32

_	838	369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and pitch and	USPAT	2004/06/17 18:30
		wave\$llength (((numerical adj aperture) NA) with ("0.75" "0.85" "0.9" "0.90" "0.875" "0.825")) and ((blue indigo		
		violet purple) with (laser light)) and		
		((phase adj chang\$3) phase\$1chang\$3) and		
		(((light adj transmi\$5) protect\$3) near4 layer)	ļ	
-	826	369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/17
		land) with groove) and pitch and wave\$llength (((numerical adj aperture)		18:32
		NA) with ("0.75" "0.85" "0.9" "0.90"		
		"0.875" "0.825")) and ((blue indigo violet purple) with (laser light)) and		
		((phase adj chang\$3) phase\$1chang\$3) and		
		((((light adj transmi\$5) protect\$3) near4 layer) near5 (\$5mm \$4mu\$1m))		
-	34	369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/17
		land) with groove) and pitch and wave\$llength and ((numerical adj		18:44
		aperture) NA) and ((blue indigo violet		
		<pre>purple) with (laser light)) and ((phase adj chang\$3) phase\$1chang\$3) and (((light</pre>		
		adj transmi\$5) protect\$3) near4 layer)		2004/06/17
-	7	369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and pitch and	USPAT	2004/06/17
		wave\$llength and (((numerical adj		
		aperture) NA) with ("0.75" "0.85" "0.9" "0.90" "0.875" "0.825")) and ((blue		
		indigo violet purple) with (laser light))		
		<pre>and ((phase adj chang\$3) phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3)</pre>		
	170	near4 layer) near5 (\$5mm \$4mu\$1m))	Mana	2004/06/17
-	179	369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and pitch and	USPAT	2004/06/17 18:45
		wave\$1length and ((numerical adj		
		aperture) NA) and ((phase adj chang\$3) phase\$1chang\$3) and (((light adj		
	46	transmi\$5) protect\$3) near4 layer) 369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/21
_	40	land) with groove) and (pitch near5	OSPAI	09:41
		(\$6mu\$1m \$3nm)) and (wave\$1length near5 (\$6mu\$1m \$3nm)) and ((numerical adj		
		aperture) NA) and ((phase adj chang\$3)		
		phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3) near4 layer) near5		
		(\$5mm \$4mu\$1m))		
-	68	369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and (pitch near5	USPAT	2004/06/21
		(\$6mu\$1m \$3nm)) and (wave\$11ength near5		
		(\$6mu\$1m \$3nm)) and ((numerical adj aperture) NA) and ((((light adj		
		transmi\$5) protect\$3) near4 layer) near5		
-	46	(\$5mm \$4mu\$1m)) 369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/21
		land) with groove) and (pitch near5		09:42
		(\$6mu\$1m \$3nm)) and (wave\$1length near5 (\$6mu\$1m \$3nm)) and ((numerical adj		
		aperture) NA) and ((phase adj chang\$3)		
		phase\$1chang\$3) and ((((light adj transmi\$5) protect\$3) near4 layer) near5		
	104	(\$5mm \$4mu\$1m))	HCDAM	2004/06/21
-	194	369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and (pitch near5	USPAT	2004/06/21 12:48
		(\$6mu\$1m \$3nm)) and (wave\$11ength near5		
		(\$6mu\$1m \$3nm)) and ((numerical adj aperture) NA) and ((phase adj chang\$3)		
		phase\$1chang\$3)	<u> </u>	

	148	(369/\$7.ccls. and substrate and ((guid\$3 land) with groove) and (pitch near5	USPAT	2004/06/21 10:13
		(\$6mu\$1m \$3nm)) and (wave\$1length near5 (\$6mu\$1m \$3nm)) and ((numerical adj		
		aperture) NA) and ((phase adj chang\$3) phase\$1chang\$3)) not (369/\$7.ccls. and		
		substrate and ((guid\$3 land) with groove)		
		and (pitch near5 (\$6mu\$1m \$3nm)) and (wave\$11ength near5 (\$6mu\$1m \$3nm)) and		
		((numerical adj aperture) NA) and		
		((((light adj transmi\$5) protect\$3) near4		
_	43	layer) near5 (\$5mm \$4mu\$1m))) 369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/21
		land) with groove) and (pitch near5		11:57
		(\$6mu\$1m \$3nm)) and (wave\$1length near5 (\$6mu\$1m \$3nm)) and (((numerical adj		
		aperture) NA) near5 ("0.75" "0.76" "0.775" "0.78" "0.8" "0.80" "0.82"		
		"0.825" "0.84" "0.85" "0.86" "0.875"		
		"0.88" "0.89" "0.9" "0.90" "0.885"		
		"0.87")) and ((phase adj chang\$3) phase\$1chang\$3)		
_	43	369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/21
		land) with groove) and (pitch near5 (\$6mu\$1m \$3nm micron)) and (wave\$1length		11:59
		near5 (\$6mu\$1m \$3nm)) and (((numerical adj aperture) NA) near5 ("0.75" "0.76"		
		"0.775" "0.78" "0.8" "0.80" "0.82"		
		"0.825" "0.84" "0.85" "0.86" "0.875" "0.88" "0.89" "0.9" "0.90" "0.885"		
		"0.87")) and ((phase adj chang\$3)		
	36	phase\$1chang\$3) 369/\$7.ccls. and substrate and ((guid\$3	USPAT	2004/06/21
	30	land) with groove) and (pitch near5	OSTAI	12:50
		(\$6mu\$1m \$3nm)) and (wave\$1length near5 (\$6mu\$1m \$3nm)) and ((numerical adj		
,		aperture) NA) and ((phase adj chang\$3)		
		phase\$1chang\$3) and ((super adj resolution) SIL)		
-	10	369/\$7.ccls. and "jis standard"	USPAT	2004/06/22
_	0	369/\$7.ccls. and ("jis standard" with ((x	USPAT	08:26
		adj "6241") x6241))	II C D D M	08:27
-	0	369/\$7.ccls. and ("jis standard" with ((x adj "6241") x6241 x6241:1997))	USPAT	2004/06/22 08:28
-	54	369/\$7.ccls. and (modulated adj amplitude)	USPAT	2004/06/22
_	2	369/\$7.ccls. and ((modulated adj	USPAT	08:29 2004/06/22
	4	amplitude) with 0.4\$1) 369/\$7.ccls. and ((modulated adj	USPAT	08:30 2004/06/22
	_	amplitude) with (0.4\$1 0.5\$1))		08:42
-	2	369/\$7.ccls. and ((modulated adj amplitude) with (cnr error))	USPAT	2004/06/22 08:42
_	2	369/\$7.ccls. and ((modulated adj	USPAT	2004/06/22
_	489	amplitude) with (cnr error noise)) 369/\$7.ccls. and ((reflectivity	USPAT	08:43
		reflectance) with (cnr error noise))		08:44
-	123	369/\$7.ccls. and ((reflectivity reflectance) with (cnr error noise) with	USPAT	2004/06/22 08:45
		(increas\$3 decreas\$3 improv\$5 enhanc\$5		
_	0	lower\$3 rais\$3)) 369/\$7.ccls. and (((reflectivity	USPAT	2004/06/22
		reflectance) near4 percent\$3) with (cnr		08:46
		error noise) with (increas\$3 decreas\$3 improv\$5 enhanc\$5 lower\$3 rais\$3))		
-	9	369/\$7.ccls. and (((reflectivity	USPAT	2004/06/22
		reflectance) near4 (percent\$3 \$2%)) with (cnr error noise) with (increas\$3		09:03
		decreas\$3 improv\$5 enhanc\$5 lower\$3		
L		rais\$3))	<u></u>	1

_	9	369/\$7.ccls. and (((reflectivity reflectance) near4 (percent\$3 \$2%)) with ((s/n snr s-n-r signal-to-noise (signal adj2 noise adj ratio)) error noise) with	USPAT	2004/06/22 09:05
_	5	<pre>(increas\$3 decreas\$3 improv\$5 enhanc\$5 lower\$3 rais\$3))</pre>	USPAT	2004/06/22
		reflectance) near4 (percent\$3 \$2%)) with ((s/n snr s-n-r signal-to-noise (signal adj2 noise adj ratio)) error) with (increas\$3 decreas\$3 improv\$5 enhanc\$5 lower\$3 rais\$3))		09:05
_	4	l	USPAT	2004/06/22 09:08
-	5	369/\$7.ccls. and (pick\$1up (pick adj up) head) and ((laser light wave\$1length) with (blue indigo purple violet 3\$2nm (3\$2 adj (nm nano\$1meter)) 4\$2nm (4\$2 adj (nm nano\$1meter))) and (object\$3 adj lens) and ((spindle motor) with (spin\$4 rotat\$3)) and (turn\$1table (turn adj	USPAT	2004/06/22 09:34
	70	table)) and (demodulat\$3) 369/\$7.ccls. and (pick\$1up (pick adj up) head) and ((laser light wave\$1length) with (blue indigo purple violet 3\$2nm (3\$2 adj (nm nano\$1meter)) 4\$2nm (4\$2 adj (nm nano\$1meter)))) and (object\$3 adj lens) and (demodulat\$3)	USPAT	2004/06/22
-	5		USPAT	2004/06/22
_	55		USPAT	2004/06/22 09:54
	25		USPAT	2004/06/22
_	26	(phase ichange) (phase adj change) (369/\$7.ccls. and (pick\$lup (pick adj up) head) and ((laser light wave\$llength) with (blue indigo purple violet 3\$2nm (3\$2 adj (nm nano\$lmeter)) 4\$2nm (4\$2 adj (nm nano\$lmeter))) and (object\$3 adj lens) and (demodulat\$3)) and ((numerical adj aperture) NA) with (0.7\$2 0.8\$2 0.9 0.90))	USPAT	2004/06/22 13:23
_	23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	USPAT	2004/06/22 09:54

	9	(((369/\$7.ccls. and (pick\$lup (pick adj	USPAT	2004/06/22
		<pre>up) head) and ((laser light wave\$1length)</pre>		11:30
		with (blue indigo purple violet 3\$2nm		
		(3\$2 adj (nm nano\$1meter)) 4\$2nm (4\$2 adj		
		(nm nano\$1meter)))) and (object\$3 adj		
		lens) and (demodulat\$3)) and (((numerical		
		adj aperture) NA) with (0.7\$2 0.8\$2 0.9		
		0.90))) and ((spindle motor) with (spin\$4		
		rotat\$3))) and (phase\$1change (phase adj		į
İ		change))		
-	1	369/\$7.ccls. and (((sub\$1code ((auxiliary	USPAT	2004/06/22
ŀ		<pre>sub) adj (code information signal))) with</pre>		11:32
		demodulat\$3) same differential)		
-	238	369/\$7.ccls. and (((sub\$1code ((auxiliary	USPAT	2004/06/22
İ		sub) adj (code information signal))) with		11:33
		<pre>demodulat\$3))</pre>		
, -	1	369/\$7.ccls. and ((sub\$1code ((auxiliary	USPAT	2004/06/22
		<pre>sub) adj (code information signal),)) with</pre>		11:35
		demodulat\$3) and ((sub\$1code ((auxiliary		
		sub) adj (code information signal))) with		
		differential)		
-	21		USPAT	2004/06/22
		sub) adj (code information signal))) with		12:14
ì		demodulat\$3) and differential		
-	10	369/\$7.ccls. and (((sub\$1code ((auxiliary	USPAT	2004/06/22
		sub) adj (code information signal))) with		12:16
		demodulat\$3) with (wobbl\$3 focus\$4		
		tracking))		
-	594	, , , , , , , , , , , , , , , , , , , ,	USPAT	2004/06/22
		aperture) NA) with (0.7\$2 0.8\$2 0.9		13:23
		0.90))		
_	702	369/\$7.ccls. and ((wave\$1length laser	USPAT	2004/06/22
		light) with (((3?? 4??) adj		13:32
		(nano\$1meter\$1 nm)) (4??nm 3??nm)		
		(0.3???mu?m 0.4???mu?m) ((0.3?? 0.4??)		
		adj (micro\$1meter\$1 ?mu?m micron\$1))))		
–	123	369/\$7.ccls. and (pitch with (((2?? 3??	USPAT	2004/06/22
		4??) adj (nano\$1meter\$1 nm)) (4??nm 3??nm		13:34
-		2??nm) (0.3\$2?mu?m 0.4\$2?mu?m 0.2\$2?mu?m)		
		((0.3\$2 0.4\$2 0.2\$2) adj (micro\$1meter\$1		
		?mu?m micron\$1))))		
-	738		USPAT	2004/06/22
		light) with (((3?? 4??) adj		13:49
		(nano\$1meter\$1 nm)) (4??nm 3??nm)		
		(0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2 0.4\$2)		
		adj (micro\$1meter\$1 ?mu?m micron\$1))))		
_	12	((369/\$7.ccls. and (((numerical adj	USPAT	2004/06/22
		aperture) NA) with (0.7\$2 0.8\$2 0.9		14:30
		0.90))) and (369/\$7.ccls. and (pitch with		
		(((2?? 3?? 4??) adj (nano\$1meter\$1 nm))		1
		(4??nm 3??nm 2??nm) (0.3\$2?mu?m		
		0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2		
		0.2\$2) adj (micro\$1meter\$1 ?mu?m		
		micron\$1))))) and (369/\$7.ccls. and		
		((wave\$11ength laser light) with (((3??		
		4??) adj (nano\$1meter\$1 nm)) (4??nm		
		3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2		
		0.4\$2) adj (micro\$1meter\$1 ?mu?m		
		micron(1)))))) and ((light adj transmi(5))		
t i		light?transmi\$5)	Ī	ı

			T	0004/06/00
-	16	((369/\$7.ccls. and (((numerical adj	USPAT	2004/06/22 14:21
		aperture) NA) with (0.7\$2 0.8\$2 0.9 0.90))) and (369/\$7.ccls. and (pitch with		14.21
	1	(((2?? 3?? 4??) adj (nano\$1meter\$1 nm))		
		(4??nm 3??nm 2??nm) (0.3\$2?mu?m		
		0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2		
		0.2\$2) adj (micro\$1meter\$1 ?mu?m		
		micron\$1))))) and (369/\$7.ccls. and		
		((wave\$11ength laser light) with (((3??		
		4??) adj (nano\$1meter\$1 nm)) (4??nm		
		3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2		
		0.4\$2) adj (micro\$1meter\$1 ?mu?m		
		micron(1))))))) and (groove with (land		
	39	guid\$3)) (369/\$7.ccls. and (((numerical adj	USPAT	2004/06/22
-		aperture) NA) with (0.7\$2 0.8\$2 0.9	OSIAI	14:23
		0.90))) and (369/\$7.ccls. and (pitch with		11.23
		(((2?? 3?? 4??) adj (nano\$1meter\$1 nm))		
		(4??nm 3??nm 2??nm) (0.3\$2?mu?m		
		0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2		
		0.2\$2) adj (micro\$1meter\$1 ?mu?m		
		micron\$1))))) and (369/\$7.ccls. and		
		((wave\$1length laser light) with (((3??		
	1	4??) adj (nano\$1meter\$1 nm)) (4??nm		
		3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2		
		0.4\$2) adj (micro\$1meter\$1 ?mu?m micron\$1)))))		
_	0	((369/\$7.ccls. and (((numerical adj	USPAT	2004/06/22
_	"	aperture) NA) with (0.7\$2 0.8\$2 0.9	OSTAT	14:47
		0.90))) and (369/\$7.ccls. and (pitch with		
		(((2?? 3?? 4??) adj (nano\$1meter\$1 nm))		
		(4??nm 3??nm 2??nm) (0.3\$2?mu?m		
		0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2		
		0.2\$2) adj (micro\$1meter\$1 ?mu?m		
		micron\$1))))) and (369/\$7.ccls. and		
		((wave\$1length laser light) with (((3??		
		4??) adj (nano\$1meter\$1 nm)) (4??nm		
1		3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2		
		0.4\$2) adj (micro\$1meter\$1 ?mu?m micron\$1)))))) and ((((light adj		
		transmi\$5) light-transmi\$5 protect\$3)		
		near3 layer) with (7??mu.m 8??mu.m		
		9??mu.m 11??mu.m 120?mu.m 10??mu.m ((7?		
		8? 9? 11? "120" 10?) adj (micro\$1meter\$1		
		?mu.m))))	1	
-	6	((369/\$7.ccls. and (((numerical adj	USPAT	2004/06/22
		aperture) NA) with (0.7\$2 0.8\$2 0.9		14:53
		0.90))) and (369/\$7.ccls. and (pitch with		
		(((2?? 3?? 4??) adj (nano\$1meter\$1 nm))		
		(4??nm 3??nm 2??nm) (0.3\$2?mu?m		
		0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2 0.2\$2) adj (micro\$1meter\$1 ?mu?m		
	i	micron(1))))) and (369/\$7.ccls. and		
		((wave\$1length laser light) with (((3??		[
		4??) adj (nano\$1meter\$1 nm)) (4??nm		
		3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2		
		0.4\$2) adj (micro\$1meter\$1 ?mu?m		
		micron\$1)))))) and ((((light adj		
		transmi\$5) light-transmi\$5 protect\$3)		
		near3 layer) with (0.07\$1mm 0.08\$1mm		
		0.09\$1mm 0.11\$1mm 0.12mm 0.120mm 0.1\$2mm	1	
1		((0.07\$1 0.08\$1 0.09\$1 0.11\$1 0.12 0.120		
L	1	0.1\$2) adj (milli\$1meter\$1 mm))))	<u> </u>	<u> </u>

0	((369/\$7.ccls. and (((numerical adj aperture) NA) with (0.7\$2 0.8\$2 0.9 0.90))) and (369/\$7.ccls. and (pitch with (((2?? 3?? 4??) adj (nano\$lmeter\$1 nm)) (4??nm 3??nm 2??nm) (0.3\$2?mu?m 0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2 0.2\$2) adj (micro\$lmeter\$1 ?mu?m micron\$1))))) and (369/\$7.ccls. and ((wave\$llength laser light) with (((3?? 4??) adj (nano\$lmeter\$1 nm)) (4??nm 3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2 0.4\$2) adj (micro\$lmeter\$1 ?mu?m micron\$1)))))) and ((((light adj transmi\$5) light-transmi\$5 protect\$3) near3 layer) with (7??mu?m 8??mu?m 9??mu?m 11??mu?m 120?mu?m 10??mu?m ((7? 8? 9? 11? "120" 10?) adj (micro\$lmeter\$1 ?mu?m)))	USPAT	2004/06/22 14:53
0	((369/\$7.ccls. and (((numerical adj aperture) NA) with (0.7\$2 0.8\$2 0.9 0.90))) and (369/\$7.ccls. and (pitch with (((2?? 3?? 4??) adj (nano\$1meter\$1 nm)) (4??nm 3??nm 2??nm) (0.3\$2?mu?m 0.4\$2?mu?m 0.2\$2?mu?m) ((0.3\$2 0.4\$2 0.2\$2) adj (micro\$1meter\$1 ?mu?m micron\$1)))) and (369/\$7.ccls. and ((wave\$1length laser light) with (((3?? 4??) adj (nano\$1meter\$1 nm)) (4??nm 3??nm) (0.3\$2?mu?m 0.4\$2?mu?m) ((0.3\$2 0.4\$2) adj (micro\$1meter\$1 ?mu?m micron\$1))))) and ((((light adj transmi\$5) light-transmi\$5 protect\$3 resin) near3 layer) with (7??mu?m 8??mu?m 9??mu?m 11??mu?m 120?mu?m 10??mu?m ((7? 8? 9? 11? "120" 10?) adj (micro\$1meter\$1 ?mu?m)))	USPAT	2004/06/22
7		USPAT	2004/06/22 14:56